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FINAL EXAM **JUNE 2012**

NATIONAL BOARD OF EXAMINATIONS

ANAESTHESIOLOGY

PAPER-I

ANS/J/12/01/I Time: 3 hours Max. Marks : 100 Attempt all questions in order. Each question carries 10 marks. 3+7 What is the differential diagnosis of intra-operative bronchospasm? How will you manage it? Discuss indications and techniques of renal replacement therapy. 5+5 Discuss role of CRRT in septic shock. 2+(4+4) 3. Enumerate various approaches for central venous cannulation. Describe the technique and complications of internal jugular venous cannulation. 4. Discuss the regulation of intracranial pressure. Describe the methods 5+5 available for reducing it under anaesthesia. 5. Discuss indications, technique and complications of caudal epidural 3+4+3 block in children. 6. Define monitored anaesthesia care. Discuss its goals and techniques. 2+(3+5)Discuss the perioperative problems and anaesthetic management of a 7. 5+5 one year old child with hydrocephalus scheduled for shunt procedure. 8. Discuss pharmacokinetics and pharmacodynamics of dexmeditomidine. 5+5 What is its role in clinical practice? 9. Define and classify dead space ventilation. Define minute ventilation. 5+2+3 Under what conditions is minute ventilation increased? 10. Discuss the pre-operative evaluation of a patient with ischaemic heart 4+(3+3) disease. Discuss the perioperative monitoring for myocardial ischaemia and its management.

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FINAL EXAM JUNE 2012

NATIONAL BOARD OF EXAMINATIONS

ANAESTHESIOLOGY

PAPER- II

	: 3 hours Marks : 100	ANS/J/12/01/II		
	Attempt all questions in order. Each question carries 10 marks.			
1.	How would you assess a case of septic shock due to pancreat	itis? 4+6		
	Briefly discuss its management.			
2.	Discuss the various criteria for weaning a patient from prolon	iged 10		
	mechanical ventilation.			
3.	What are the physiological functions of magnesium? Describe	e its 5+5		
	therapeutic uses in anaesthesia.			
4.	Describe the anatomy of larynx and its innervation. What are	the 4+3+3		
	differences between neonatal and adult larynx?			
5.	What are the different types of carbon dioxide absorbents? Desc	ribe 3+3+4		
	their composition. Discuss the advantages and disadvantages of each	h.		
6.	What are the objectives of premedication in a patient scheduled	for 4+6		
	elective caesarean section? Describe the drugs used with their do	oses		
	and rationale.			
7.	Briefly outline the evaluation and management of a patient	with 4+6		
	suspected perioperative coagulopathy.			
8.	Discuss the preoperative evaluation of a 25 year old man	with 5+5		
	obstructive sleep apnea scheduled for laparotomy. How would	you		
	prepare him for surgery?			
9.	Describe the toxicity of commonly used local anaesthetic agents and	d its 5+5		
	management.			
10.	Discuss the anaesthetic problems in robotic surgery.	10		

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FINAL EXAM **JUNE 2012**

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ANAESTHESIOLOGY PAPER-III

Time: 3 hours ANS/J/12/01/III

Max. Marks : 100 Attempt all questions in order. Each question carries 10 marks.			
1.	Discuss the preoperative evaluation and anaesthetic management of a	5+5	
	70 years old hypertensive patient for total laryngectomy.		
2.	Discuss the etiology and management of supra ventricular arrhythmias	4+6	
	during surgery under general anaesthesia.		
3.	What are the clinical features of Myasthenia Gravis? Discuss	3+(3+4)	
	perioperative evaluation and anaesthetic management of a case		
	presenting for Interval Appendicectomy.		
4.	What are the various routes of administration of morphine? Discuss the	2+(4+4)	
	pharmacokinetics and pharmacodynamics of epidural morphine.		
5.	Discuss preoperative evaluation and anaesthetic management of a 40	(3+4)+3	
	years old hyperthyroid patient posted for total thyroidectomy.		
	Enumerate postoperative complications.		

- 6. What is capnography? Draw a labeled diagram of normal capnograph 2+(3+5)and discuss clinical considerations of capnography (EtCo2 monitoring).
- 7. Discuss causes, clinical manifestations and treatment of hypercalcemia. (2+2+2)+4What are their anaesthetic considerations?
- 8. Discuss the criteria for patient selection, contraindications, advantages 3+3+2+2 and disadvantages of autologous blood transfusion.
- 9. How would you evaluate and prepare a patient with chronic 7+3 bronchiectasis scheduled for pneumonectomy? Briefly enumerate the postoperative complications.
- Describe the counter current mechanism in the kidney. Discuss the 4+6 renal protection strategies during perioperative period.

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ANS/J/12/01/IV

ANESTHESIOLOGY

PAPER- IV

	: 3 hours ANS/J/12 Marks : 100	/01/IV
	npt all questions in order. question carries 10 marks.	
1.	Enumerate the safety features in a modern anesthesia machine.	5+5
	Describe the hypoxia prevention safety devices.	
2.	How is autonomic neuropathy evaluated preoperatively? What is its	5+5
	significance in anesthesia?	
3.	Discuss the different types of colloid solutions. Describe their	5+5
	advantages and disadvantages.	
4.	Discuss the signs and symptoms, pathophysiology and management of	3+3+4
	cyanide toxicity.	
5.	Describe anatomy of paravertebral space with diagram. Describe one	5+5
	method of establishing paravertebral block.	
6.	What are the anaesthetic considerations for day care surgery? Discuss	2+(2+6)
	the clinical criteria for recovery and discharge after day care surgery.	
7.	Classify hypothermia. Describe the pathophysiological effects of	3+7
	hypothermia.	
8.	Describe Bernoulli's principle and its various applications in anaesthesia.	5+5
9.	Explain the term 'Complex Regional Pain Syndrome (CRPS)'. What are	2+2+6
	the types of CRPS? Describe its clinical features and options for	
•	treatment.	
10.	Enumerate the environmental hazards in the operation theatre and	4+6
	discuss the methods for its prevention.	

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